


Zachary Montague

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Summary

Experienced Site Reliability Engineer/Research Scientist with a demonstrated history of working in the information technology and services industry. Skilled in Linux System Administration, Security Engineering, Python Scripting, Bash, AWS Architecture and System Operations, Automation Tasks and building CI/CD pipelines for many different sized business requirements.

Experience



Site Reliability Engineer

Saint Louis University School of Medicine

Feb 2020 - Present (11 months +)

Designed and rebuilt hybrid IT infrastructure to meet multi-departmental needs for the School of Medicine

Developed CI/CD pipelines for departmental software and web servers.

Implemented ITIL best practices.

Refined monitoring systems

Migrated high performance computing resources to Azure, for high availability, fault tolerant systems

Performed vulnerability scans on systems and recommended forms of remediation

Trained researchers in the use of IT resources.

Produced multi-departmental training documents.

Consulted on university wide project taking HPC cluster to the cloud.

Managed and maintained research equipment systems and network.



Cloud Engineer

Saint Louis University

Jul 2019 - Feb 2020 (8 months)

Ensured cloud architecture was HIPAA complaint.

Monitored and maintained large fleet of servers.

Maintained cloud security best practices.

Designed cloud based architecture to fit customer needs.

Attended meetings for discovery of customer needs.

Managed and debugged high performance computing clusters, through Linux system administration and Bright Compute Management service.

Implemented CI/CD pipeline into workflow, using tools such as Jenkins, Docker, and Ansible.

Implemented monitoring with Prometheus and Grafana.

Created and edited IaC templates in both Cloud Formation and Terraform.

Trained team members on Linux, high performance computing administration, and cloud solutions.

Created and maintained documentation process for department using JIRA and Confluence.

Used AWS EKS and Argo to construct a cluster able to ease batch processing work.



Senior System Administrator

RnS Distribution

Nov 2017 - Jun 2019 (1 year 8 months)

Engineered company's systems setup, establishing automated server generation routines, optimizing system performance, installing upgrades/patches, establishing system monitoring and maintaining security protocols.

Responsible for hardware and software applications for workstations, servers, and network data communications.

Worked in AWS services like VPC, EC2, S3, ELB, AutoScalingGroups(ASG), EBS, RDS, IAM, CloudFormation, Route 53, CloudWatch, CloudFront, CloudTrail.

Created multiple VPC's and public, private subnets as per requirement and distributed them as groups into various availability zones of the VPC.

Created NAT gateways and instances to allow communication from the private instances to the internet through bastion hosts.



System Administrator/Jr. Game Scripter

Stoopid Chikin

Apr 2015 - Oct 2017 (2 years 7 months)

Scripted game logic behavior with Python.

Managed *nix servers.

Engineered company's systems setup, establishing automated server generation routines, optimizing system performance, installing upgrades/patches, establishing system monitoring and maintaining security protocols.

Handled migration from Window Server to AWS architecture and Linux AMLs.



Technical Support Specialist

Jim's Formal Wear LLC

Mar 2011 - Apr 2015 (4 years 2 months)

Provided technical support on AS400 systems, at request of managers when IT department was busy.

Managed a multi-personality team in high stress environment



Junior System Administrator

RnS Distribution

May 2006 - Mar 2011 (4 years 11 months)

Diagnose, troubleshoot, and resolve hardware, software, or other network and system problems, and replace defective components when necessary.

Maintain and administer computer networks and related computing environments including computer hardware, systems software, applications software, and all configurations.

Education



Saint Louis University

Bachelor's degree, Computer and Information Systems Security/Information Assurance

2020 - 2026



LaunchCode

Computer Programming

2016 - 2016

Attended LaunchCode coding course in which education of the C programming language and JavaScript was taught.

Skills

Linux • Cloud Computing • IT Infrastructure Operations • Linux System Administration • Information Technology • Cloud Management • Automation • System Administration • Amazon Web Services (AWS) • Microsoft Azure